

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/573,962
Source: IFwp
Date Processed by STIC: 4/7/06

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IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,962

DATE: 04/07/2006
TIME: 14:58:51

Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\04072006\J573962.raw

3 <110> APPLICANT: GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED BY
4 THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
5 DIMITROV, Dimiter S.
6 ZHANG, Mei-Yun
8 <120> TITLE OF INVENTION: IMMUNOGLOBULINS WITH POTENT AND BROAD ANTIVIRAL ACTIVITY
10 <130> FILE REFERENCE: 251149
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/573,962
C--> 12 <141> CURRENT FILING DATE: 2006-03-29
12 <150> PRIOR APPLICATION NUMBER: US 60/506,946
13 <151> PRIOR FILING DATE: 2003-09-29
15 <150> PRIOR APPLICATION NUMBER: PCT/US04/31878
16 <151> PRIOR FILING DATE: 2004-09-29
18 <160> NUMBER OF SEQ ID NOS: 19
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 254
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Synthetic
30 <400> SEQUENCE: 1
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33 1 5 10 15
36 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
37 20 25 30
40 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
41 35 40 45
44 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
45 50 55 60
48 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
49 65 70 75 80
52 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
53 85 90 95
56 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly
57 100 105 110
60 Ser Gly Gly Ala Ser Gly Gly Ser Val Arg Leu Leu Glu
61 115 120 125
64 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser
65 130 135 140
68 Cys Lys Ala Ser Gly Gly Thr Phe Ser Met Tyr Gly Val Asn Trp Val
69 145 150 155 160
72 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
73 165 170 175

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76 Ile Phe Gly Thr Ser Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr
77 180 185 190
80 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn
81 195 200 205
84 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly
85 210 215 220
88 Pro Asp Trp Glu Asp Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe
89 225 230 235 240
92 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
93 245 250
96 <210> SEQ ID NO: 2
97 <211> LENGTH: 254
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Synthetic
104 <400> SEQUENCE: 2
106 Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Ala Gly Glu Arg
107 1 5 10 15
110 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
111 20 25 30
114 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
115 35 40 45
118 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
119 50 55 60
122 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
123 65 70 75 80
126 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
127 85 90 95
130 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly
131 100 105 110
134 Ser Gly Gly Ser Gly Gly Ser Val Gln Leu Leu Glu
135 115 120 125
138 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser
139 130 135 140
142 Cys Lys Ala Phe Gly Gly Thr Phe Ser Met Tyr Gly Phe Asn Trp Val
143 145 150 155 160
146 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
147 165 170 175
150 Ile Phe Gly Thr Thr Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr
151 180 185 190
154 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn
155 195 200 205
158 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly
159 210 215 220
162 Pro Asp Trp Glu Gly Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe
163 225 230 235 240
166 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Asn Val Ser Ser
167 245 250

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170 <210> SEQ ID NO: 3
171 <211> LENGTH: 19
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Synthetic
178 <400> SEQUENCE: 3
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181 1 5 10 15
184 Pro Cys Pro
188 <210> SEQ ID NO: 4
189 <211> LENGTH: 34
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Synthetic
196 <400> SEQUENCE: 4
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199 1 5 10 15
202 Asp Pro Glu Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
203 20 25 30
206 Cys Pro
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 216
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Synthetic
218 <400> SEQUENCE: 5
220 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
221 1 5 10 15
224 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
225 20 25 30
228 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
229 35 40 45
232 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
233 50 55 60
236 Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
237 65 70 75 80
240 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
241 85 90 95
244 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
245 100 105 110
248 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
249 115 120 125
252 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
253 130 135 140
256 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
257 145 150 155 160

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260 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
261 165 170 175
264 Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
265 180 185 190
268 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
269 195 200 205
272 Lys Ser Leu Ser Leu Ser Pro Gly
273 210 215
276 <210> SEQ ID NO: 6
277 <211> LENGTH: 489
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Synthetic
284 <400> SEQUENCE: 6
286 Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Ala Gly Glu Arg
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290 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
291 20 25 30
294 Ala Trp Tyr Gln Gln Lys Pro, Gly Gln Ala Pro Arg Leu Leu Ile Tyr
295 35 40 45
298 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
299 50 55 60
302 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
303 65 70 75 80
306 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
307 85 90 95
310 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly
311 100 105 110
314 Ser Gly Gly Ala Ser Gly Gly Ser Val Arg Leu Leu Glu
315 115 120 125
318 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser
319 130 135 140
322 Cys Lys Ala Ser Gly Gly Thr Phe Ser Met Tyr Gly Val Asn Trp Val
323 145 150 155 160
326 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
327 165 170 175
330 Ile Phe Gly Thr Ser Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr
331 180 185 190
334 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn
335 195 200 205
338 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly
339 210 215 220
342 Pro Asp Trp Glu Asp Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe
343 225 230 235 240
346 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Pro Asp
347 245 250 255
350 Pro Glu Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
351 260 265 270

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354 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 355 275 280 285
 358 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 359 290 295 300
 362 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 363 305 310 315 320
 366 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 367 325 330 335
 370 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 371 340 345 350
 374 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 375 355 360 365
 378 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 379 370 375 380
 382 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
 383 385 390 395 400
 386 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 387 405 410 415
 390 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Gln Asn
 391 420 425 430
 394 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 395 435 440 445
 398 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 399 450 455 460
 402 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 403 465 470 475 480
 406 Gln Lys Ser Leu Ser Leu Ser Pro Gly
 407 485
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 411 <211> LENGTH: 504
 412 <212> TYPE: PRT
 413 <213> ORGANISM: Artificial
 415 <220> FEATURE:
 416 <223> OTHER INFORMATION: Synthetic
 418 <400> SEQUENCE: 7
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 421 1 5 10 15
 424 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
 425 20 25 30
 428 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 429 35 40 45
 432 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
 433 50 55 60
 436 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
 437 65 70 75 80
 440 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
 441 85 90 95
 444 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly
 445 100 105 110

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date